

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

NOV 10 2003

ATTY DOCKET NO.
30817-1008-CIP

SERIAL NO.
10/644,703

Louis A. Pena, et al.

FILING
08/19/2003

GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ID	5,608,035	03/04/1997	Yanofsky, et al.	530	324	
ID	5,635,597	06/03/1997	Barrett, et al.	530	327	
ID	5,643,873	07/01/1997	Barrett, et al.	514	12	
ID	5,648,458	07/15/1997	Cwirla, et al.	530	324	
ID	5,654,276	08/05/1997	Barrett, et al.	514	413	
ID	5,668,110	09/16/1997	Barrett, et al.	514	13	
ID	5,728,802	03/17/1998	Barrett, et al.	530	324	
ID	5,759,515	06/02/1998	Rhodes, et al.	424	1.69	
ID	5,767,234	06/16/1998	Yanofsky, et al.	530	327	
ID	5,773,569	06/30/1998	Wrighton, et al.	530	300	
ID	5,786,322	07/28/1998	Barrett, et al.	514	2	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
ID	WO 00/18921	06.04.2000	PCT				
ID	WO 02/04015	17.01.2002	PCT				
ID	WO 02/19963	14.03.2002	PCT				
ID	WO 02/20033	14.03.2002	PCT				

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ID	Peter Carmeliet and Edward M. Conway, "Growing better blood vessels," <i>Nature Biotechnology</i> (2001) 19:1019-1020
ID	Thomas P. Richardson, Martin C. Peters, Alessandra B. Ennett, and David J. Mooney, "Polymeric system for dual growth factor delivery," <i>Nature Biotechnology</i> (2001) 19:1029-1034

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1D	5,786,331	07/28/1998	Barrett, et al.	514	15	
1D	5,830,851	11/03/1998	Wrighton, et al.	514	2	
1D	5,861,476	01/19/1999	Barrett, et al.	530	527	
1D	5,866,113	02/02/1999	Hendriks, et al.	424	78.17	
1D	5,880,096	03/09/1999	Barrett, et al.	514	15	
1D	6,001,364	12/14/1999	Rose, et al.	424	193.1	
1D	6,030,812	02/29/2000	Bauer, et al.	435	69.7	
1D	6,121,236	09/19/2000	Ben-Sasson	514	12	
1D	6,168,784	01/02/2001	Offord, et al.	424	85.1	
1D	6,174,530	01/16/2001	Rose, et al.	424	193.1	
1D	6,174,721	01/16/2001	Innis, et al.	435	320.1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1D		Francois Paris, Zvi Fuks, Anthony Kang, Paola Capodiceci, Gloria Juan, Desiree Ehleiter, Adriana Haimovitz-Friedman, Carlos Cordon-Cardo, Richard Kolesnick, "Endothelial Apoptosis as the Primary Lesion Initiating Intestinal Radiation Damage in Mice," <i>Science</i> (2001) 293:293-297
1D		Luca Pellegrini, "Role of heparan sulfate in fibroblast growth factor signalling: a structural view," <i>Structural Biology</i> (2001) 11:629-634

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10	6,214,795	04/10/2001	Benjamin, et al.	514	12	
10	6,217,873	04/17/2001	Rose, et al.	424	193.1	
10	6,326,468	12/04/2001	Canne, et al.	530	333	
10	6,350,731	02/26/2002	Jehanli, et al.	514	12	
10	6,377,349	04/23/2002	Fercher	356	450	
10	6,451,653	09/17/2002	Kochendoerfer, et al.	435	7.1	
10	5,563,046	10/08/1996	Mascarenhas, et al.	435	69.52	
10	5,674,977	10/07/1997	Gariepy	530	324	
10	5,679,637	10/21/1997	Lappi, et al.	514	2	
10	5,684,136	11/04/1997	Godowski	530	399	
10	5,770,704	06/23/1998	Godowski	530	402	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

10		Takumi Takizawa, Makoto Yanagisawa, Wataru Ochiai, Kiyoshi Yasukawa, Takahiko Ishiguro, Kinichi Nakashima, Tetsuya Taga, "Directly Linked Soluble IL-6 Receptor-IL-6 Fusion Protein Induces Astrocyte Differentiation From Neuroepithelial Cells Via Activation of STAT3," <i>Cytokine</i> (2001) 13:272-279
10		Atsuko Yoneda, Masahiro Asada, Yuko Oda, Masashi Suzuki, and Toru Imamura, "Engineering of an FGF-proteoglycan fusion protein with heparin-independent, mitogenic activity," <i>Nature Biotechnology</i> (2000) 18:641-644

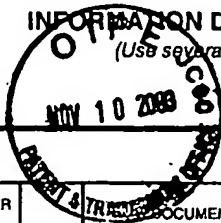
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1D	5,789,182	08/04/1998	Yayon, et al.	435	721	
1D	5,869,451	02/09/1999	Dower, et al.	514	13	
1D	5,902,799	05/11/1999	Herrmann, et al.	514	58	
1D	5,932,462	08/03/1999	Harris, et al.	435	188	
1D	5,952,474	09/14/1999	Kayman, et al.	530	395	
1D	5,955,588	09/21/1999	Tsang, et al.	536	21	
1D	5,965,532	10/12/1999	Bachovchin	514	12	
1D	5,989,866	11/23/1999	Deisher, et al.	435	69.4	
1D	5,994,104	11/30/1999	Anderson, et al.	435	69.52	
1D	6,011,002	01/04/2000	Pastan, et al.	514	2	
1D	6,051,648	04/18/2000	Rhee, et al.	525	54.1	

FOREIGN PATENT DOCUMENTS

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							YES	NO

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1D	6,235,716	05/22/2001	Ben-Sasson	514	15	
1D	6,284,503	09/04/2001	Caldwell, et al.	435	181	
1D	6,251,864	06/26/2001	Dower, et al.	514	13	
1D	6,294,359	09/25/2001	Fiddes, et al.	435	69.4	
1D	6,323,323	11/27/2001	Sledziewski, et al.	530	387.3	
1D	6,342,591	01/29/2002	Zamora, et al.	536	21	
1D	6,350,731	02/26/2002	Jehanli, et al.	514	12	

FOREIGN PATENT DOCUMENTS

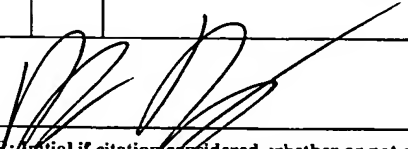
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						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

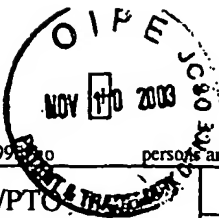
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Docket Number (Optional)	Application Number
		30817-1008-CIP	10/644,703
		Applicant(s)	
		Louis A. Pena, et al.	
		Filing Date	Group Art Unit
		08/19/2003	Unknown
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
EXAMINER INITIAL			
1b	Angela Verrecchio, Markus W. Germann, Barbara P. Schick, Brian Kung, Thomas Twardowski, and James D. San Antonio, "Design of Peptides with High Affinities for Heparin and Endothelial Cell Proteoglycans," <i>The Journal of Biological Chemistry</i> (2000) 275: 7701-7707		
1D	Marcus D. Ballinger, Venkatakrishna Shyamala, Louise D. Forrest, Maja Deuter-Reinhard, Laura V. Doyle, Jian-xin Wang, Looetee Panganiban-Lustan, Jennifer R. Stratton, Gerald Apell, Jill A. Winter, Michael V. Doyle, Steven Rosenberg, and W. Michael Kavanaugh, "Semirational design of a potent, artificial agonist of fibroblast growth factor receptors," <i>Nature Biotechnology</i> (1999) 17:1199-1204		
1D	Maemaunah Hasan, Saloua Najjam, Myrtle Y. Gordon, Roslyn V. Gibbs, and Christopher C. Rider, "IL-12 is a Heparin-Binding Cytokine," <i>The Journal of Immunology</i> (1999) 162: 1064-1070		
1D	R. Sood, A. Talwar-Trikha, SR Chakrabarti and G. Nucifor, "MDS1/EV11 enhances TGF-B1 signaling and strengthens its growth-inhibitory effect, but the leukemia-associated fusion protein AML1/MDS1/CV11, product of the t(3:21), abrogates growth-inhibition in response to TGF-B1," <i>Leukemia</i> (1999) 13: 348-357		
1D	Jose A. Andrades, Bo Han, Jose Becerra, Nino Sorgente, Frederick L. Hall, and Marcel E. Nimni, "A Recombinant Human TGF-B1 Fusion Protein with Collagen-Binding Domain Promotes Migration, Growth, and Differentiation of Bone Marrow Mesenchymal Cells," <i>Experimental Cell Research</i> (1999) 250:485-498		
1D	Marco Rusnati, Elena Tanghetti, Patrizia Dell'Era, Anna Gualandris, and Marco Presta, "avB3 Integrin Mediates the Cell-adhesive Capacity and Biological Activity of Basic Fibroblast Growth Factor (FGF-2) in Cultured Endothelial Cells," <i>Molecular Biology of the Cell</i> (1997) 8:2449-2461		
1D	Jasodhara Ray, Andrew Baird, and Fred H. Gage, "A 10-amino acid sequence of fibroblast growth factor 2 is sufficient for its mitogenic activity on neural progenitor cells," <i>Proc. Natl. Acad. Sci. USA</i> (1997) 94:7047-7052		
1D	Arne Ostman, Maria Andersson, Ulf Hellman, and Carl-Henrik Heldin, "Identification of Three Amino Acids in the Platelet-derived Growth Factor (PDGF) B-chain That Are Important for Binding to the PDGF B-Receptor" <i>The Journal of Biological Chemistry</i> , Vol 266, No. 16, Issue of June 5, pp. 10073-10077, 1991		
1D	David M. Brennand, Ulla Dennehy, Vincent Ellis, Michael F. Scully, Poonam Tripathi, Vijay V. Kakkar, Geeta Patel, "Identification of a cyclic peptide inhibitor of platelet-derived growth factor-BB receptor-binding and mitogen-induced DNA synthesis in human fibroblasts," <i>FEBS Letters</i> 413 (1997) 70-74		
1D	Ahmed, Asif; Dunk, Caroline; Kniss, Douglas; Wilkes, Mark, "Role of VEGF Receptor-1 (Fit-1) in Mediating Calcium-Dependent Nitric Oxide Release and Limiting DNA Synthesis in Human Trophoblast Cells," <i>Lab Invest</i> , Volume 76(6) June 1997:779-791		
1D	Philip E. Dawson and Stephen B. H. Kent, "Synthesis of Native Proteins by Chemical Ligation," <i>Annu. Rev. Biochem.</i> 2000, 69:923-60		
1D	Roselyne Binetruy-Tournaire, Caroline Demangel, Bernard Malavaud, Roger Vassy, Sylvie Rouyre, Michael Kraemer, Jean Plouet, Claude Derbin, Gerard Perret and Jean Claude Mazie, "Identification of a peptide blocking vascular endothelial growth factor (VEGF)-mediated angiogenesis," <i>The EMBO Journal</i> Vol. 19 No. 7 pp. 1525-1533, 2000		
EXAMINER	DATE CONSIDERED		
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PTO/SB/08B (10-96)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				COMPLETE IF KNOWN	
				Application Number	10/644,703
				Filing Date	08/19/2003
				First Named Inventor	Louis A. Pena
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet		of		Attorney Docket Number	30817-1008-CIP

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²	
1D		Khee Dong Eom, Zhenwei Miao, Jin-Long Yang, and James P. Tam, "Tandem Ligation of Multipartite Peptides with Cell-Permeable Activity," <i>J. Am. Chem. Soc.</i> 2003, 125, 73-83		
1D		Gerd G. Kochendoerfer, Shiah-Yun Chen, Geng Mao, Sonya Cressman, Stacey Traviglia, Haiyan Shao, Christie L. Hunter, Donald W. Low, E. Neil Cagle, Maia Carnevali, Vincent Gueriguian, Peter J. Keoch, Heather Porter, Stephn M. Stratton, M. Con Wiedeke, Jill Wilken, Jie Tang, Jay J. Levy, Les P. Miranda, Milan M. Crnogorac, Suresh Kalbag, Paolo Botti, Janice Schindler-Horvat, Laura Savatski, John W. Adamson, Ada Kung, Stephn B. H. Kent, James a Bradburne, "Design and Chemical Synthesis of Homogeneous Polymer-Modified Erythropoiesis Protein," <i>Science</i> , 7 February 2003, Vol. 299		
1D		Michael M. Dikov, Martha B. Reich, Lydia Dworkin, James W. Thomas, and Geraldine G. Miller, "A Functional Fibroblast Growth Factor-1 Immunoglobulin Fusion Protein," <i>The Journal of Biological Chemistry</i> , Vol 273, No. 25, Ussue of June 19, pp. 15811-15817, 1998		
1D		Ulla Engstrom, Ake Engstrom, Agneta Emlund, Bengt Westermark, and Carl-Henrik Heldin, "Identification of a Peptide Antagonist for Platelet-derived Growth Factor," <i>The Journal of Biological Chemistry</i> , Vol. 267, No. 23, Issue of August 15, pp. 16581-16587, 1992		
1D		David E. Hoke, Daniel Carson, and Magnus Hook, "A heparin binding synthetic peptide from human HIP/RPL29 fails to specifically differentiate between anticoagulantly active and inactive species of heparin," <i>Journal of Negative Results in BioMedicine</i> 2003, 2:1		
Examiner Signature			Date Considered	10/06/2006

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¹ Unique citation designation number. 2. Applicant is to place a check mark here if English language Translation is attached.

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Group Art Unit

1653

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INITIAL

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Gay, Cyril G. and Winkles, Jeffrey A.; Interleukin 1 regulates heparin-binding growth facto 2 gene expression in vascular smooth muscle cells; Proc. Natl. Acad. Sci. USA, Vol. 88, pp. 296-300, January 1991 Cell Biology



EXAMINER

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